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Notices

Federal Communications Commission (FCC) Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Neither the provider nor the manufacturer are responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult a dealer or experienced TV/radio technician for help.

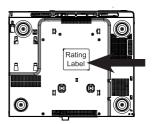
Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Neither the Dealer nor the Manufacturer are responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

Safety Informations

We recommend that you read this section carefully before using the H971-RH. These safety and usage instructions will ensure that you enjoy many years safe use of the H971-RH. Keep this manual for future reference.

Warning Symbols on the H971-RH Case Be sure to read the power rating label on the bottom of the H971-RH before operation.

Caution: Before connecting power to the H971-RH, make sure the power source is within the range of AC 100~240V, 50~60 Hz. Do not attempt to service the H971-RH yourself. If the unit gets wet or you think it is damaged, have the unit serviced. Do not open the unit case for any reason.



Gernal Safety Information



 Do not place heavy objects such as books or bags on the unit.



 Avoid placing objects with strong magnets built in too close to the unit. If you suspect stereo speakers may interfere with the unit, try moving the speakers away from the unit.



 Avoid using the system in direct sunlight, or near a heating device.



• To prevent the unit from overheating, do not cover the air ventilation openings on the top, sides, or the rear.



 Do not open the unit case. Do not attempt to service the H971-RH yourself. For servicing, contact qualified service personnel.



• Do not place the unit on an unstable surface, cart, or stand.



- Avoid exposing the H971-RH to moisture or excessive humidity.
- Follow all warnings and cautions in this manual and on the unit case.
- · If an outside antenna or cable system is to be connected to your AV PC, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and static charges.

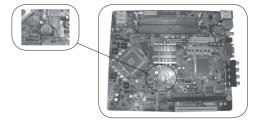
CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERY ACCORDING TO THE INSTRUCTIONS.

Change Battery on the Motherboard:

- 1. Turn off Computer and unplug the power cord.
- 2. Gently take out the old battery.
- 3. Re-install the new battery.
- 4. Plug the power cord in and turn on the computer.
- *Danger of explosion if battery is incorrectly replaced.

applicable requirements.



- *Replace only with the same or equivalent type recommended by the manufacture.
- *Dispose of used batteries according to the manufacturer's instructions.

WEEE-Consumer Notice: The GIGABYTE product you have purchased is subject to Directive 2002/96/EC of the European Parliament and the Council of the European Union on waste electrical and electronic equipment (WEEE) and, in jurisdictions adopting that Directive, is marked as being put on the market after August 13, 2005, and should not be disposed of as unsorted municipal waste. Please utilize your local WEEE collection facilities in the disposition of this product and otherwise observe all

Package Contents

Carefully unpack the H971-RH and check the following items are included:



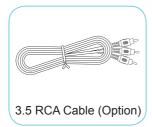


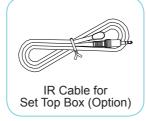




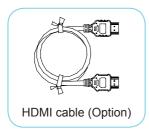






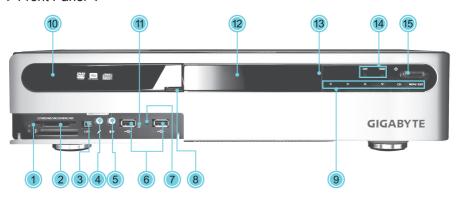






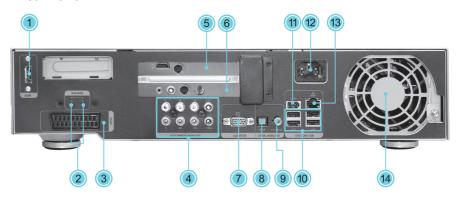
Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work.

▶Front Panel ◀



Item	Description
1. Card Slot Activity (W/R) LED	Lights up when a storage card was placed in the slot.
2. Card Reader	7-in-1 card reader.
3. IEEE 1394 Port (4 pin)	Connect IEEE 1394-enabled devices.
4. MIC-In	Connect a microphone here.
5. Line-Out	Connect to spakers or an amplifier with stereo mini-plug.
6. USB Port	Connect USB-enabled devices.
7. RF Reciver Switch	RF Keyboard learning button.
8. Stop / Eject Button	Push to eject a disc from the DVD drive.
9. Front Function Buttons	Function buttons and Arrow buttons help to navigate in the MCE menu.
10. Optical Drive	This is a Super Multi DVD.
11. Status LED Indicator	RF Keyboard LED status indicator.
12. VFD	VFD (Vacuum Fluorescent Display).
13. IR Window	Interfaces with infrared devices (for MCE RC only).
14. Status LED Indicator	These LEDs indicates the status of hard disk activity and LAN activity.
15. Power Button	Push this power button to turn the H971-RH on.

▶Rear Panel ◀



2. IR Blaster 2. IR Blaster 3. SCART (Optional) 4. 7.1 Channels Audio Jack (RCA) 5. PCI-E*16X Expansion Slot Cover 6. PCI-E*1X Expansion Slot Cover 7. VGA Port 8. S/PDIF (Optical / Toslink) 9. S/PDIF (Coaxial) 1. EEE 1394 Port (6-pin) 7. In Blaster can be taught the remote control codes for anyset-top box and provides control of a wide range of other PC applications. 21-pins connector for connecting audio-visual equipment together. (For EU market only) 1. This IR blaster can be taught the remote control codes for anyset-top box and provides control of a wide range of other PC applications. 21-pins connector for connecting audio-visual equipment together. (For EU market only) 1. This IR blaster can be taught the remote control codes for anyset-top box and provides control of a wide range of other PC applications. 21-pins connect an external example to example to post of the remote control codes for anyset-top box and provides control of a wide range of other PC applications. 21-pins connect on install provides control of a wide range of other PC applications. 21-pins connect to install provides control of a wide range of other PC applications. 22-pins connect to install provides equipment together. (For EU market only) 12. Power Jack 13. LAN Port 14. Page of Carlot and provides control of a wide range of other propections. 24. Page of Carlot and provides control of a wide range of other propections. 25. Politary and provides control of a wide range of other propections. 26. Politary and provides control of a wide range of other propections. 27. VGA Port 28. S/PDIF (Optical / Toslink) 29. S/PDIF (Coaxial) 20. Digital audio output connector. 20. Connect USB-enabled devices. 21. IEEE 1394 Port (6-pin) 22. Power Jack 23. LAN Port 24. Page of Carlot on Politary and provides control of Ethernet cable).	Item	Description
2. IR Blaster for anyset-top box and provides control of a wide range of other PC applications. 3. SCART (Optional) 21-pins connector for connecting audio-visual equipment together. (For EU market only) 4. 7.1 Channels Audio Jack (RCA) Integrated with 7.1 High Definition Audio support. 5. PCI-E*16X Expansion Slot Cover Cy-NX73T256P-RH) 6. PCI-E*11X Expansion Remove this cover to install PCI-E*11X Card, eg., VGA card. (Space limitation: 195(L)x120(W)x20(H)mm,eg., GV-NX73T256P-RH) 7. VGA Port Connect to a display device (e.g., external monitor, LCD projector). 8. S/PDIF (Optical / Toslink) Digital audio output connector. 9. S/PDIF (Coaxial) Digital audio output connector. 10. USB Port Connect USB-enabled devices. 11. IEEE 1394 Port (6-pin) Connect IEEE 1394-enabled devices. 12. Power Jack Connect to an RJ-45 connector (Ethernet cable).	1. eSATA	Connect an external eSATA device.
together. (For EU market only) 4. 7.1 Channels Audio Jack (RCA) Integrated with 7.1 High Definition Audio support. Remove this cover to install PCI-E*16 Card, eg., VGA card. (Space limitation: 195(L)x120(W)x20(H)mm,eg., GV-NX73T256P-RH) Remove this cover to install PCI-E*1X Card, eg., TV capture card. Remove this cover to install PCI-E*1X Card, eg., TV capture card. Connect to a display device (e.g., external monitor, LCD projector). S/PDIF (Optical / Toslink) Digital audio output connector. S/PDIF (Coaxial) Digital audio output connector. Connect USB-enabled devices. 1. IEEE 1394 Port (6-pin) Connect IEEE 1394-enabled devices. Connect power cord AC Jack here. Connect to an RJ-45 connector (Ethernet cable).	2. IR Blaster	for anyset-top box and provides control of a wide range
Integrated with 7.1 High Definition Audio support. Remove this cover to install PCI-E*16 Card, eg., VGA card. (Space limitation: 195(L)x120(W)x20(H)mm,eg., GV-NX73T256P-RH) PCI-E*1X Expansion Remove this cover to install PCI-E*1X Card, eg., TV capture card. Connect to a display device (e.g., external monitor, LCD projector). S/PDIF (Optical / Toslink) Digital audio output connector. S/PDIF (Coaxial) Digital audio output connector. Connect USB-enabled devices. Connect USB-enabled devices. Connect power cord AC Jack here. Connect to an RJ-45 connector (Ethernet cable).	3. SCART (Optional)	
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Slot Cover capture card. 7. VGA Port Connect to a display device (e.g., external monitor, LCD projector). 8. S/PDIF (Optical / Toslink) Digital audio output connector. 9. S/PDIF (Coaxial) Digital audio output connector. 10. USB Port Connect USB-enabled devices. 11. IEEE 1394 Port (6-pin) Connect IEEE 1394-enabled devices. 12. Power Jack Connect power cord AC Jack here. 13. LAN Port Connect to an RJ-45 connector (Ethernet cable).	·	card. (Space limitation: 195(L)x120(W)x20(H)mm,eg.,
projector). 8. S/PDIF (Optical / Toslink) Digital audio output connector. 9. S/PDIF (Coaxial) Digital audio output connector. 10. USB Port Connect USB-enabled devices. 11. IEEE 1394 Port (6-pin) Connect IEEE 1394-enabled devices. 12. Power Jack Connect power cord AC Jack here. 13. LAN Port Connect to an RJ-45 connector (Ethernet cable).	•	
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10. USB Port Connect USB-enabled devices. 11. IEEE 1394 Port (6-pin) Connect IEEE 1394-enabled devices. 12. Power Jack Connect power cord AC Jack here. 13. LAN Port Connect to an RJ-45 connector (Ethernet cable).	8. S/PDIF (Optical / Toslink)	Digital audio output connector.
11. IEEE 1394 Port (6-pin) Connect IEEE 1394-enabled devices. 12. Power Jack Connect power cord AC Jack here. 13. LAN Port Connect to an RJ-45 connector (Ethernet cable).	9. S/PDIF (Coaxial)	Digital audio output connector.
 12. Power Jack Connect power cord AC Jack here. 13. LAN Port Connect to an RJ-45 connector (Ethernet cable). 	10. USB Port	Connect USB-enabled devices.
13. LAN Port Connect to an RJ-45 connector (Ethernet cable).	11. IEEE 1394 Port (6-pin)	Connect IEEE 1394-enabled devices.
	12. Power Jack	Connect power cord AC Jack here.
44 David Overshille to East Development that a second of the second of t	13. LAN Port	Connect to an RJ-45 connector (Ethernet cable).
14. Power Supply Unit Fan Provide Ventilation Inside the power supply unit.	14. Power Supply Unit Fan	Provide ventilation inside the power supply unit.

Chapter

System Introduction

▶VFD (Vacuum Fluorescent Display) Message ◀

The H971-RH display different system information depending on the system mode. When H971-RH is turn on in normal Windows mode, "WELCOME" is shown.



Media play mode status (DVD/VCD/ ▶ || ◀◀ ▶▶), mute, and recording is shown on the left side. Volume level and radio signal are shown on the right side.

- ► Using Windows XP Media Center Edition ◀
 - If the system is turn on in Normal Mode (Media Center Applications are not run) or in the sleep mode, the screen will display time and volumes of the audio.



• If the system is in the Media Center Home frame (see Figure 1), the screen will display date and time.





Figure 1: The Media Center Start menu.

My Video Mode

• If "My Video" is selected (see Figure 2), "My Videos" and volumes of audio are shown.





Figure 2: The Media Center My Video menu.

Play Video



Next



Previous



My Picture Mode

• If "My Pictures" is selected (see Figure 3), "My Pictures" is shown.





Figure 3: The Media Center My Pictuers menu.

• If the photo slide show starts, "Slide Show" is shown.



• You can watch pictures in a slide show and play music using Windows Media Center. When the music starts, the screen will display "PLAY" and the track time.



My Music Mode

• If "My Music" is selected (see Figure 4), "My Music" is shown on the panel.





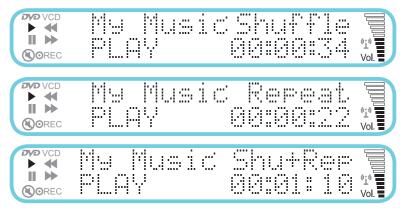
Figure 4: The Media Center My Music menu.

When play individual songs, entire albums, or your favorite playlists, "My Music" and track time are shown on the panel.

Play Music



• Shuffle/Repeat



Forward



My TV Mode

• When "My TV" is selected (see Figure 5), "My TV" is shown.





Figure 5: The Media Center My TV menu.

• When you watch Live TV, "PLAY" and the track time are shown.



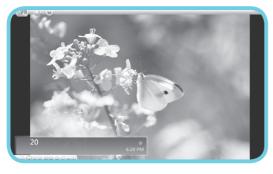


Figure 6: My TV always records what you've been watching onto hard drive, so at any time you can control live TV by using the Pause, Play, FWD, and REW buttons on the remote.

► Using Windows Vista Window Media Center <</p>

The H971-RH display different system information depending on the system mode. When H971-RH is turn on in normal Windows mode, "WELCOME" is shown.



- ► Using Windows Vista Media Center
 - If the system is turn on in Normal Mode (Media Center Applications are not run) or in the sleep mode, the screen will display time and volumes of the audio.



• If the system is in the Media Center Home frame (see Figure 1), the screen will display date and time.





Figure 1: The Vista Media Center Start menu.

TV + Movies

• When you watch Live TV, Channel, "PLAY" and the track time are shown. When you record TV program, Channel, "REC" and track time are shown.

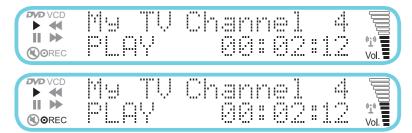




Figure 2: The Vista Media Center TV + Movies menu. Access to your Recorded TV Programs. Use remote or keyboard to choose from the list of recorded TV programs.

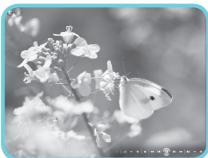


Figure 3: The TV Programs are always recorded onto hard drive, so at any time you can control live TV by using the Pause, Play, FWD, and RFW buttons on the remote.

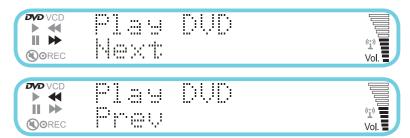


Figure 4: Play movies from DVDs and Video CDs.

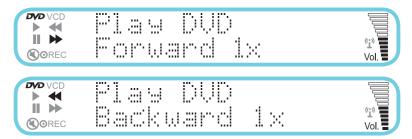
Play DVD



Next / Previous



Forward / Backward



Music



Figure 5: The Vista Media Center Music menu. Music Libriay helps to orgnaize digital music.

Chapter

System Introduction

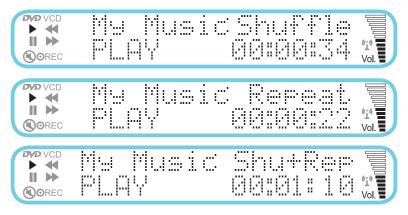
Windows Media Center menu in Windows Vista provides a better way to organize and listen to your music. You can access all your digital musice by using the remote control or keyboard.

When play individual songs, entire albums, or your favorite playlists, "My Music" and track time are shown on the panel.

Play Music



Shuffle/Repeat



Forward



Picture + Video

• If "Picture Library" is selected (see Figure 6), "My Pictures" is shown.





Figure 6: The Vista Media Center Picture Library.

• If "Video Library" is selected (see Figure 7), "My Video" is shown.





Figure 7: The Vista Media Center Video Library.

Play Video



Next / Previous





▶ Remote Control Functions ◀



lta	Decemention
Item	Description
(Power on/off
	Stop
	Recording button
lacksquare	Play
	Pause
(4)	← Fast rewind / ► Fast forward
	Previous track / Next track
(Back
(i)	More information
	Direction buttons: Up/ Down Direction buttons: Left/ Right
OK	Enter button: OK
$\oplus \ominus$	⊕ Next / ⊖ Previous (TV) Channel⊕ Volume up/ ⊖ Volume down
	Active MCE
\odot	Mute button
Č	Recording TV program
	Opens TV program guide
Ď	Shortcut to full-screen view of live TV
	Open Play DVD main page in MCE
0~9	Enter alphanumerical letters
CLEAR	Clear input
ENTER	Confirm input



Item	Description
(6)	Power on/off
	Stop
	Recording button
	Play
(II)	Pause
₩ >	Fast rewind / Fast forward
	Previous track /
•	Back
j	More information
	Direction buttons: Up/ Down
OK	Enter button: OK
$\Theta \mathfrak{D}$	Direction buttons: Left/ Right
$\bigoplus \bigoplus_{PG} \frac{CH}{PG}$	⊕ Next / ⊖ Previous (TV) Channel
(\cancel{B})	Active MCE
vol \bigoplus	⊕ Volume up/ ⊖ Volume down
\odot	Mute button
RECORDED TV	Recording TV program
GUIDE	Opens TV program guide
LIVE TV	Shortcut to full-screen view of live TV
DVD MENU	Open Play DVD main page in MCE
0~9	Enter alphanumerical letters
CLEAR	Clear input
ENTER	Confirm input

► Keyboard Functions (Option) ◀



- 1. Left Button: Function likes the left mouse button.
- 2. Right Button: Function likes the right mouse button.
- 3. Trackball: Control the position of cursor.



- 1. Left Button: Function likes the left mouse button.
- 2. Right Button: Function likes the right mouse button.
- 3. Shortcut Buttons:

 Power button ()

 MCE/PCM start up 1

 Back to PC screen □

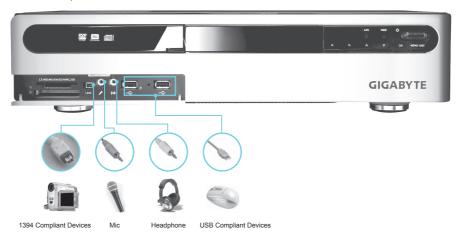
 Internet (€

 E-mail button ☑
- 4. Trackball: Control the position of cursor.

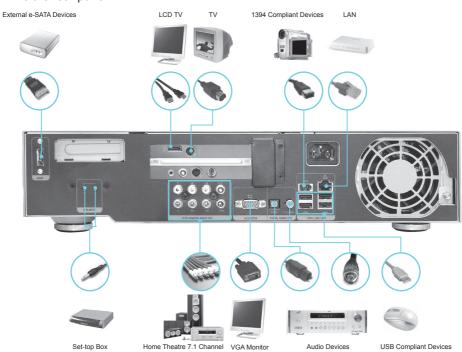
Chapter Basic Installation

► Connecting External Devices ◀

To the front panel



To the rear panel



Chapter Basic Installation

▶Inserting Remote Control and Keyboard Batteries ◀

The battery compartment is on the back of the underside of the remote control. Please remove the batteries when not using for a longer period.



- 1. Pull and open the battery compartment cover.
- 2. Insert 2 AA batteries taking note of the correct polarity (+/-).
- 3. Close the cover.

The battery compartment is on the underside of the keyboard. Please remove the batteries when not using for a longer period.

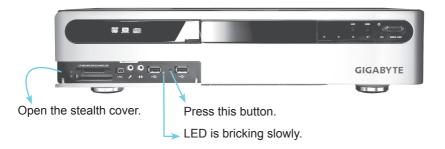
- 1. Pull upward to remove the cover.
- 2. Insert 2 AA batteries taking note of the correct polarity (+/-).
- 3. Close the cover.



Chapter Basic Installation

► Set Up Keyboard Linkage ◀

- Check if keyboard batteries have been installed. (Please follow instructions on P.17 to insert batteries).
- 2. Open the stealth cover. Press connect button. After pressing the button, its indicator will light (slowly) and waiting for the match signal from the RF Keyboard.



Open the battery compartment. Then press this learning button on RF Keyboard to let receiver recognize signal. As soon as the linkage is completed, the indicator turns to quick flash.





Remote Control and Keyboard Operating Range:

It is necessary to point the remote directly at the H971-RH. Provided you are facing the H971-RH, the remote will function well within a radius of about 3 meters (10 feet) and 30 degrees above or below the H971-RH level. If the H971-RH does not response to the remote control, move a little closer or replace the batteries.

The keyboard uses RF to control, so it is not necessary to point the keyboard directly at H971-RH. Provided you are facing the H971-RH, the keyboard will function well within a radius of about 10 meters without interference.

▶Power Up◀

Press the system power button (也) to turn H971-RH on.



When you turn H971-RH on, "WELCOME" is shown on the VFD (see diagram below).



If your RF keyboard linkage has not been set, please follow the steps shown below:

- 1. Check if the batteries have been installed.
- 2. Press connect button on the front. Then press the learning button on the back of the keyboard to let receiver recognize signal. (Please refer to Page18)
- 3. Please check keyboard operating within a radius of about 10 meters without interference.

Chapter Starting Up

► Support CD Information ◀

The Support CD that came with H971-RH contains useful software and utility driver that enhance the features.



The contents of the CD are subject to change at any time without notice. Visit the GIGABYTE Website for updates.

It is best to install the needed device drivers for using the built-in devices of your H971-RH. Before installing the drivers, check with your dealer first if they have already installed all the drivers. If not, follow the procedures below:

1. You can find one bundled driver CD shown as follow.



2. Put the CD into the optical drive. Please install the application step by step.

► Cleaning H971-RH ◀

Cleaning the H971-RH

Refer to the following to clean the H971-RH case.

- 1. Wipe off dust with a clean dampened cloth.
- 2. Moisten the cloth with warm water and wring the cloth out well, then wipe the case.



Warning:

- 1. Be sure to turn off and unplug the H971-RH at least an hour before cleaning.
- 2. If a little water gets into the H971-RH interior while cleaning, leave un-plugged in a well ventilated room for several hours before using.
- 3. To prevent discoloration or fading of the case, do not use any chemical or abrasive alcohol-based cleaners.

▶ Troubleshooting <</p>

Common Problems and Solutions:

These guidelines provide tips to deal with problems you may encounter while using the H971-RH. If the problem remains unsolved, contact your dealer for assistance. Check the following before proceeding to the problem-specific solutions.

- Use some other electrical device to confirm that the electrical outlet is working.
- Ensure the H971-RH is turned on.
- · Ensure all connections are securely attached.
- · Ensure the attached device is turned on.



Tips for Troubleshooting:

In each problem-specific section, try the steps in the order suggested. This may help you to solve the problem more quickly.

Try to pin point the problem and thus avoid replacing non-defective parts. For example, if you replace batteries and the problem remains, put the original batteries back and go to the next step.

Keep a record of the steps you take when troubleshooting. The information may be useful when calling for technical support or for passing on to service personnel.

Remote Control or Keyboard Problems:

Problem: The H971-RH does not respond to the remote control or the keyboard.

- 1. Direct the remote control or keyboard towards the remote sensor on H971-RH.
- 2. Ensure the path between the remote and sensor is not obstructed.
- 3. Check the battery polarity.
- 4. Replace the batteries.
- 5. Have the remote control or keyboard serviced.

Audio Problems

Problem: There is no sound.

- 1. Adjust the volume on the remote control.
- 2. Adjust the volume of the audio source.
- 3. Check the audio cable connection.
- 4. Test the source audio output with other speakers.
- 5. Have the H971-RH serviced.

Problem: The sound is distorted.

- 1. Check the audio cable connection.
- 2. Test the source audio output with other speakers.
- 3. Have the H971-RH serviced.

Video Problems

Problem: Picture is distorted.

- 1. Check the video cable connections.
- 2. Check the TV system of disc matches that of your TV set (NTSC/PAL).
- 3. Have the H971-RH serviced.

Board	GA - 8IBGNBX-RH
CPU	Pentium D 820 / 830 / 920 / 930 / 950 / Core 2 Duo E4200 / E6300 / E6400 / E6600 / E6700(option)
DRAM	DDRII 512 MB up to 2GB (option)
HDD	SATAI / SATAII 160GB or 250GB above (option)
Dimensions	438.2 (W) x 325.8 (D) x 60.8 (H) mm
Power Rating	300W (AC 100 - 240V; 47 - 63 Hz)
Chipset	G965 / ICH8DH / ALC 888 RealTEK / Intel Gigabit 82566DC
Front I/O	USB 2.0 Port x2 / IEEE 1394 Port (4-pin) / Card Reader / IrDA / Audio Jack
Peripherals	MCE Remote Control (option) / RF Keyboard + Trackball (option)
Add-on Cards	Riser Card / ADD card (option) / Tuner card (option) / FIO board / PCI-E16X VGA Card (option) / Card Reader / VFD module
Operating System	Windows XP MCE / Windows Vista Home Premium (option)
A/P	GBT driver disk / Application Software Disk (option)
Rear I/O	USB 2.0 Port x4 / HDMI (option) / Video-Out (option) / 7.1 Channels Audio RCA Jack / e-SATA / VGA Port / SPDIF / Coaxial Port / IEEE 1394 Port (6-pin) / Gigabit LAN Port
Certification	Windows Logo / EMI / Safety Windows Vista Capable Logo / Intel VIIV Logo



In order to serve you better, we have reorganized our Technical Support Zone Please Visit our web site GIGABYTE Technical Service Zone for further technical support.

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